

1FWO

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/668,846A

CRF Edit Date: 9/7/04
Edited by: AE



Realigned nucleic acid/amino acid numbers/text in cases where the sequence text was wrapped to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:

Corrected <1517 numeric identifier; added <1417 numeric identifier



IFWO

RAW SEQUENCE LISTING

DATE: 09/07/2004

PATENT APPLICATION: US/10/668,846A

TIME: 17:04:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09072004\J668846A.raw

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4 <110> APPLICANT: Graham D. Smith
5   Philip David Hayes
6   Darren Smart
8 <120> TITLE OF INVENTION: Novel Compounds
11 <130> FILE REFERENCE: GP30201V
13 <140> CURRENT APPLICATION NUMBER: 10/668,846A
14 <141> CURRENT FILING DATE: 2003-09-23
16 <150> PRIOR APPLICATION NUMBER: GB9905557.6
17 <151> PRIOR FILING DATE: 1999-03-11
19 <150> PRIOR APPLICATION NUMBER: GB9923635.8
20 <151> PRIOR FILING DATE: 1999-10-06
23 <160> NUMBER OF SEQ ID NOS: 4
25 <170> SOFTWARE: FastSEQ for Windows Version 3.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 2616
29 <212> TYPE: DNA
30 <213> ORGANISM: Homo sapiens
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35 gagggggagg atggctccct ttcgccctca ccggtgatg ccagtcgccc tgctggccca      180
36 ggcgatgggc gaccaaactc gcgcataaag ttccaggcgc ccttcgcaa gggggtgccc      240
37 aaccccatcg atctgctgga gtccacccta tatgagtcct cgggtggtgc tggggccaaag      300
38 aaagcaccca tggactcact gtttgactac ggcacctatc gtcaccactc cagtgcacaac      360
39 aagaggtgga ggaagaagat catagagaag cagccgcaga gccccaaaag ccctgcccct      420
40 cagccgcccc ccctcctcaa agtcttcaac cggcctatcc tctttgacat cgtgtcccgg      480
41 ggctccactg ctgacctgga cgggctgctc ccattcttgc tgaccacaa gaaacgccta      540
42 actgatgagg agtttcgaga gccatctacg gggaagacct gcctgcccga ggccctgctg      600
43 aacctgagca atggccgcaa cgacaccatc cctgtgctgc tggacatcgc ggagcgcacc      660
44 ggcaacatgc gggagttcat taactcgccc ttccgtgaca tctactatcg aggtcagaca      720
45 gccctgcaca tcgccattga gcgtcgctgc aaacactacg tggaaacttct cgtggcccag      780
46 ggagctgatg tccacgcccc gggccgtggg cgcttcttcc agcccaagga tgaggggggg      840
47 tacttctact ttggggagct gcccctgtcg ctggctgcct gcaccaacca gcccacatt      900
48 gtcaactacc tgacggagaa cccccacaag aaggcggaca tgcggcgcca ggaactcgga      960
49 ggcaacacag tgctgcatgc gctggtggcc attgctgaca acaccctga gaacaccaag      1020
50 tttgttacca agatgtacga cctgctgctg ctcaagtgtg ccgcctctt ccccgacagc      1080
51 aacctggagg ccgtgctcaa caacgacggc ctctcgcccc tcatgatggc tgccaagacg      1140
52 ggcaagattg ggaatcttca gcacatcatc cggcgggagg tgacggatga ggacacacgg      1200
53 cacctgtccc gcaagttcaa ggactggggc tatgggccag tgtattcttc gctttatgac      1260
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55 agcaagattg agaaccgcca cgagatgctg gctgtggagc ccatcaatga actgctgcgg      1380
56 gacaagtggc gcaagttcgg ggccgtctcc ttctacatca acgtggtctc ctacctgtgt      1440
57 gccatgggtc tcttcaactc caccgcctac taccagccgc tggagggcac accgcctgac      1500

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TIME: 17:04:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09072004\J668846A.raw

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59 ggggtcctgt tcttcttcac caacatcaaa gacttggtca tgaagaaatg ccctggagtg 1620
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62 gccctgggtc tgggctggat gaatgccctt tacttcaccc gtgggctgaa gctgacgggg 1800
63 acctatagca tcatgatcca gaagattctc ttcaaggacc ttttccgatt cctgctcgtc 1860
64 tacttgctct tcatgatcgg ctacgcttca gccctggtct cctcctgaa cccgtgtgcc 1920
65 aacatgaagg tgtgcaatga ggaccagacc aactgcacag tgcccactta cccctcgtgc 1980
66 cgtgacagcg agaccttcag caccctcctc ctggacctgt ttaagctgac cattggcatg 2040
67 ggcgacctgg agatgctgag cagcaccaac taccctggtg tcttcacatc cctgctggtg 2100
68 acctacatca tcctcacctt tgtgctgctc ctcaacatgc ctattgcctt catgggcgag 2160
69 acagtgggcc aggtctccaa ggagagcaag cacatctgga agctgcagtg ggccaccacc 2220
70 atcctggaca ttgagcgctc cttcccctga ttctgagga aggccttcct cctggtggag 2280
71 atggtcaccg tgggcaagag ctggacggc actcctgacc gcaggtggtg cttcaggggtg 2340
72 gatgaggtga actggtctca ctggaaccag aacttgggca tcatcaacga ggacccgggc 2400
73 aagaatgaga cctaccagta ttatggttc tcgcataccg tgggcccgtt ccgcagggat 2460
74 cgctggtcct cggtggtacc ccgcgtggtg gaactgaaca agaactcgaa cccggacgag 2520
75 gtggtggtgc ctctggacag catggggaac ccccgctgcg atggccacca gcagggttac 2580
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78 <210> SEQ ID NO: 2

79 <211> LENGTH: 871

80 <212> TYPE: PRT

81 <213> ORGANISM: Homo sapiens

83 <400> SEQUENCE: 2

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85 1 5 10 15
86 Glu Leu Pro Gly Asp Glu Ser Gly Thr Pro Gly Gly Glu Ala Phe Pro
87 20 25 30
88 Leu Ser Ser Leu Ala Asn Leu Phe Glu Gly Glu Asp Gly Ser Leu Ser
89 35 40 45
90 Pro Ser Pro Ala Asp Ala Ser Arg Pro Ala Gly Pro Gly Asp Gly Arg
91 50 55 60
92 Pro Asn Leu Arg Met Lys Phe Gln Gly Ala Phe Arg Lys Gly Val Pro
93 65 70 75 80
94 Asn Pro Ile Asp Leu Leu Glu Ser Thr Leu Tyr Glu Ser Ser Val Val
95 85 90 95
96 Pro Gly Pro Lys Lys Ala Pro Met Asp Ser Leu Phe Asp Tyr Gly Thr
97 100 105 110
98 Tyr Arg His His Ser Ser Asp Asn Lys Arg Trp Arg Lys Lys Ile Ile
99 115 120 125
100 Glu Lys Gln Pro Gln Ser Pro Lys Ala Pro Ala Pro Gln Pro Pro Pro
101 130 135 140
102 Ile Leu Lys Val Phe Asn Arg Pro Ile Leu Phe Asp Ile Val Ser Arg
103 145 150 155 160
104 Gly Ser Thr Ala Asp Leu Asp Gly Leu Leu Pro Phe Leu Leu Thr His
105 165 170 175
106 Lys Lys Arg Leu Thr Asp Glu Glu Phe Arg Glu Pro Ser Thr Gly Lys
107 180 185 190
108 Thr Cys Leu Pro Lys Ala Leu Leu Asn Leu Ser Asn Gly Arg Asn Asp

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TIME: 17:04:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09072004\J668846A.raw

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109      195      200      205
110 Thr Ile Pro Val Leu Leu Asp Ile Ala Glu Arg Thr Gly Asn Met Arg
111      210      215      220
112 Glu Phe Ile Asn Ser Pro Phe Arg Asp Ile Tyr Tyr Arg Gly Gln Thr
113      225      230      235      240
114 Ala Leu His Ile Ala Ile Glu Arg Arg Cys Lys His Tyr Val Glu Leu
115      245      250      255
116 Leu Val Ala Gln Gly Ala Asp Val His Ala Gln Ala Arg Gly Arg Phe
117      260      265      270
118 Phe Gln Pro Lys Asp Glu Gly Gly Tyr Phe Tyr Phe Gly Glu Leu Pro
119      275      280      285
120 Leu Ser Leu Ala Ala Cys Thr Asn Gln Pro His Ile Val Asn Tyr Leu
121      290      295      300
122 Thr Glu Asn Pro His Lys Lys Ala Asp Met Arg Arg Gln Asp Ser Arg
123      305      310      315      320
124 Gly Asn Thr Val Leu His Ala Leu Val Ala Ile Ala Asp Asn Thr Arg
125      325      330      335
126 Glu Asn Thr Lys Phe Val Thr Lys Met Tyr Asp Leu Leu Leu Leu Lys
127      340      345      350
128 Cys Ala Arg Leu Phe Pro Asp Ser Asn Leu Glu Ala Val Leu Asn Asn
129      355      360      365
130 Asp Gly Leu Ser Pro Leu Met Met Ala Ala Lys Thr Gly Lys Ile Gly
131      370      375      380
132 Ile Phe Gln His Ile Ile Arg Arg Glu Val Thr Asp Glu Asp Thr Arg
133      385      390      395      400
134 His Leu Ser Arg Lys Phe Lys Asp Trp Ala Tyr Gly Pro Val Tyr Ser
135      405      410      415
136 Ser Leu Tyr Asp Leu Ser Ser Leu Asp Thr Cys Gly Glu Glu Ala Ser
137      420      425      430
138 Val Leu Glu Ile Leu Val Tyr Asn Ser Lys Ile Glu Asn Arg His Glu
139      435      440      445
140 Met Leu Ala Val Glu Pro Ile Asn Glu Leu Leu Arg Asp Lys Trp Arg
141      450      455      460
142 Lys Phe Gly Ala Val Ser Phe Tyr Ile Asn Val Val Ser Tyr Leu Cys
143      465      470      475      480
144 Ala Met Val Ile Phe Thr Leu Thr Ala Tyr Tyr Gln Pro Leu Glu Gly
145      485      490      495
146 Thr Pro Pro Tyr Pro Tyr Arg Thr Thr Val Asp Tyr Leu Arg Leu Ala
147      500      505      510
148 Gly Glu Val Ile Thr Leu Phe Thr Gly Val Leu Phe Phe Thr Asn
149      515      520      525
150 Ile Lys Asp Leu Phe Met Lys Lys Cys Pro Gly Val Asn Ser Leu Phe
151      530      535      540
152 Ile Asp Gly Ser Phe Gln Leu Leu Tyr Phe Ile Tyr Ser Val Leu Val
153      545      550      555      560
154 Ile Val Ser Ala Ala Leu Tyr Leu Ala Gly Ile Glu Ala Tyr Leu Ala
155      565      570      575
156 Val Met Val Phe Ala Leu Val Leu Gly Trp Met Asn Ala Leu Tyr Phe
157      580      585      590

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DATE: 09/07/2004

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TIME: 17:04:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09072004\J668846A.raw

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158 Thr Arg Gly Leu Lys Leu Thr Gly Thr Tyr Ser Ile Met Ile Gln Lys
159           595           600           605
160 Ile Leu Phe Lys Asp Leu Phe Arg Phe Leu Leu Val Tyr Leu Leu Phe
161           610           615           620
162 Met Ile Gly Tyr Ala Ser Ala Leu Val Ser Leu Leu Asn Pro Cys Ala
163           625           630           635           640
164 Asn Met Lys Val Cys Asn Glu Asp Gln Thr Asn Cys Thr Val Pro Thr
165           645           650           655
166 Tyr Pro Ser Cys Arg Asp Ser Glu Thr Phe Ser Thr Phe Leu Leu Asp
167           660           665           670
168 Leu Phe Lys Leu Thr Ile Gly Met Gly Asp Leu Glu Met Leu Ser Ser
169           675           680           685
170 Thr Lys Tyr Pro Val Val Phe Ile Ile Leu Leu Val Thr Tyr Ile Ile
171           690           695           700
172 Leu Thr Phe Val Leu Leu Leu Asn Met Leu Ile Ala Leu Met Gly Glu
173           705           710           715           720
174 Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile Trp Lys Leu Gln
175           725           730           735
176 Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe Pro Val Phe Leu
177           740           745           750
178 Arg Lys Ala Phe Arg Ser Gly Glu Met Val Thr Val Gly Lys Ser Ser
179           755           760           765
180 Asp Gly Thr Pro Asp Arg Arg Trp Cys Phe Arg Val Asp Glu Val Asn
181           770           775           780
182 Trp Ser His Trp Asn Gln Asn Leu Gly Ile Ile Asn Glu Asp Pro Gly
183           785           790           795           800
184 Lys Asn Glu Thr Tyr Gln Tyr Tyr Gly Phe Ser His Thr Val Gly Arg
185           805           810           815
186 Leu Arg Arg Asp Arg Trp Ser Ser Val Val Pro Arg Val Val Glu Leu
187           820           825           830
188 Asn Lys Asn Ser Asn Pro Asp Glu Val Val Val Pro Leu Asp Ser Met
189           835           840           845
190 Gly Asn Pro Arg Cys Asp Gly His Gln Gln Gly Tyr Pro Arg Lys Trp
191           850           855           860
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193           865           870
195 <210> SEQ ID NO: 3
196 <211> LENGTH: 3223
197 <212> TYPE: DNA
198 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 3
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203 ctgagctccc cggggatgag agtggcaccc caggtgggga ggcttttcc ctctcctccc      180
204 tggccaatct gtttgagggg gaggatggct ccctttcgcc ctcaccggct gatgccagtc      240
205 gccctgctgg ccaggcgat gggcgaccaa atctgcgcac gaagttccag ggcgccttcc      300
206 gcaagggggg gcccaacccc atcgatctgc tggagtccac cctatatgag tcctcggtgg      360
207 tgccctgggc caagaaagca cccatggact cactgtttga ctacggcacc tatcgtcacc      420
208 actccagtga caacaagagg tggaggaaga agatcataga gaagcagccg cagagcccca      480

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RAW SEQUENCE LISTING

DATE: 09/07/2004

PATENT APPLICATION: US/10/668,846A

TIME: 17:04:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09072004\J668846A.raw

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209 aagccccctgc cccctcagccg ccccccatcc tcaaagtctt caaccggcct atcctctttg 540
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211 acaagaaacg cctaactgat gaggagtctt gagagccatc tacggggaag acctgcctgc 660
212 ccaaggcctt gctgaacctg agcaatggcc gcaacgacac catccctgtg ctgctggaca 720
213 tcgcgagcgc caccggcaac atgcgggagt tcattaacte gcccttccgt gacatctact 780
214 atcgaggtca gacagccctg cacatcgcca ttgagcgctg ctgcaaacac tacgtggaac 840
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221 tggctgccaa gacgggcaag attgggatct ttcagcacat catccggcgg gaggtgacgg 1260
222 atgaggacac acggcacctg tcccgaagt tcaaggactg ggcctatggg ccagtgtatt 1320
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233 gattcctgct cgtctacttg ctcttcatga tcggctacgc ttcagccctg gtctccctcc 1980
234 tgaaccctg tgcacacatg aaggtgtgca atgaggacca gaccaactgc acagtgccca 2040
235 cttacccttc gtgccgtgac agcgagacct tcagcacctt cctcctggac ctgtttaagc 2100
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237 tcatcctgct ggtgacctac atcatcctca cttttgtgct gtcctcaac atgctcattg 2220
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239 agtgggccac caccatctg gacattgagc gtccttccc cgtattcctg aggaaggcct 2340
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241 ggtgcttcag ggtggatgag gtgaactggt ctactggaa ccagaacttg ggcatcatca 2460
242 acgaggaccc gggcaagaat gagacctacc agtattatgg cttctcgcat accgtgggac 2520
243 gcctccgcag ggatcgctgg tctcgggtgg taccctcgct ggtggaactg aacaagaact 2580
244 cgaaccgcga cgaggtggtg gtgcctctgg acagcatggg gaacccccgc tgcgatggcc 2640
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253 tttgcaaggg gctggggccc tcggcggtgg gccatgcctt ctgtgtgttc tgtagtgtct 3180
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257 <211> LENGTH: 3237
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/668,846A

DATE: 09/07/2004

TIME: 17:04:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09072004\J668846A.raw



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/668,846A

DATE: 09/03/2004

TIME: 11:38:42

Input Set : A:\USSequence.txt

Output Set: N:\CRF4\09032004\J668846A.raw

Does Not Comply
Corrected Diskette Needed

4 <110> APPLICANT: Graham D. Smith
 5 Philip David Hayes
 6 Darren Smart
 8 <120> TITLE OF INVENTION: Novel Compounds
 11 <130> FILE REFERENCE: GP30201V
 13 <140> CURRENT APPLICATION NUMBER: 10/668,846A
 C--> 15 <141> CURRENT FILING DATE: 2003-09-23
 <151> 15 <150> PRIOR APPLICATION NUMBER: GB9905557.6
 W--> 16 <150> PRIOR APPLICATION NUMBER: 1999-03-11
 W--> 18 <150> PRIOR APPLICATION NUMBER: GB9923635.8
 W--> 19 <150> PRIOR APPLICATION NUMBER: 1999-10-06
 <151> 22 <160> NUMBER OF SEQ ID NOS: 4
 24 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 2616
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
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 34 gagggggagg atggctccct ttgcctctca ccggtgatg ccagtcgccc tgctggccca 180
 35 ggcgatgggc gaccaaactc gcgcatgaag ttccaggcgt ccttcgcaa gggggtgccc 240
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 42 aacctgagca atggcgcga cgacaccatc cctgtgctgc tggacatcgc ggagcgcacc 660
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 49 tttgttacca agatgtacga cctgctgctg ctcaagtgtg ccgcctctt ccccgacagc 1080
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 51 ggcaagattg ggaatcttca gcacatcatc cggcgggagg tgacggatga ggacacacgg 1200
 52 cacctgtccc gcaagttcaa ggactgggccc tatgggcccag tgtattcctc gctttatgac 1260
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/668,846A

DATE: 09/03/2004

TIME: 11:38:42

Input Set : A:\USSequence.txt

Output Set: N:\CRF4\09032004\J668846A.raw

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59 aattctctct tcattgatgg ctccctccag ctgctctact tcatctactc tgtcctgggtg 1680
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61 gccctggtcc tgggctggat gaatgccctt tacttcaccc gtgggctgaa gctgacgggg 1800
62 acctatagca tcatgatcca gaagattctc ttcaaggacc ttttccgatt cctgctcgtc 1860
63 tacttgctct tcatgatcgg ctacgcttca gccctggtct ccctcctgaa cccgtgtgcc 1920
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65 cgtgacagcg agaccttcag cacccttcctc ctggacctgt ttaagctgac cattggcatg 2040
66 ggcgacctgg agatgctgag cagcaccaag taccctgtgg tcttcatcat cctgctgggtg 2100
67 acctacatca tccctacctt tgtgctgctc ctcaacatgc tcattgccct catgggcgag 2160
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69 atcctggaca ttgagcgctc cttccccgta ttctgagga aggccttcog ctctggggag 2280
70 atggtcaccg tgggcaagag ctcggaacgg actcctgacc gcagggtggtg cttcaggggtg 2340
71 gatgaggtga actggtctca ctggaaccag aacttgggca tcatcaacga ggaccggggc 2400
72 aagaatgaga cctaccagta ttatggcttc tcgcataacc tgggcgcgct ccgcagggat 2460
73 cgctggctct cgggtgtacc ccgcgtgggt gaactgaaca agaactcgaa cccggacgag 2520
74 gtggtggtgc ctctggacag catggggaac ccccgctgcg atggccacca gcagggttac 2580
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77 <210> SEQ ID NO: 2

78 <211> LENGTH: 871

79 <212> TYPE: PRT

80 <213> ORGANISM: Homo sapiens

82 <400> SEQUENCE: 2

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83 Met Ala Asp Ser Ser Glu Gly Pro Arg Ala Gly Pro Gly Glu Val Ala
84 1 5 10 15
85 Glu Leu Pro Gly Asp Glu Ser Gly Thr Pro Gly Gly Glu Ala Phe Pro
86 20 25 30
87 Leu Ser Ser Leu Ala Asn Leu Phe Glu Gly Glu Asp Gly Ser Leu Ser
88 35 40 45
89 Pro Ser Pro Ala Asp Ala Ser Arg Pro Ala Gly Pro Gly Asp Gly Arg
90 50 55 60
91 Pro Asn Leu Arg Met Lys Phe Gln Gly Ala Phe Arg Lys Gly Val Pro
92 65 70 75 80
93 Asn Pro Ile Asp Leu Leu Glu Ser Thr Leu Tyr Glu Ser Ser Val Val
94 85 90 95
95 Pro Gly Pro Lys Lys Ala Pro Met Asp Ser Leu Phe Asp Tyr Gly Thr
96 100 105 110
97 Tyr Arg His His Ser Ser Asp Asn Lys Arg Trp Arg Lys Lys Ile Ile
98 115 120 125
99 Glu Lys Gln Pro Gln Ser Pro Lys Ala Pro Ala Pro Gln Pro Pro Pro
100 130 135 140
101 Ile Leu Lys Val Phe Asn Arg Pro Ile Leu Phe Asp Ile Val Ser Arg
102 145 150 155 160
103 Gly Ser Thr Ala Asp Leu Asp Gly Leu Leu Pro Phe Leu Leu Thr His
104 165 170 175
105 Lys Lys Arg Leu Thr Asp Glu Glu Phe Arg Glu Pro Ser Thr Gly Lys
106 180 185 190
107 Thr Cys Leu Pro Lys Ala Leu Leu Asn Leu Ser Asn Gly Arg Asn Asp

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/668,846A

DATE: 09/03/2004

TIME: 11:38:42

Input Set : A:\USSequence.txt

Output Set: N:\CRF4\09032004\J668846A.raw

108		195		200		205	
109	Thr	Ile	Pro	Val	Leu	Leu	Asp
110		210		215		220	
111	Glu	Phe	Ile	Asn	Ser	Pro	Phe
112		225		230		235	
113	Ala	Leu	His	Ile	Ala	Ile	Glu
114			245			250	
115	Leu	Val	Ala	Gln	Gly	Ala	Asp
116			260			265	
117	Phe	Gln	Pro	Lys	Asp	Glu	Gly
118			275			280	
119	Leu	Ser	Leu	Ala	Ala	Cys	Thr
120			290			295	
121	Thr	Glu	Asn	Pro	His	Lys	Lys
122			305			310	
123	Gly	Asn	Thr	Val	Leu	His	Ala
124				325			330
125	Glu	Asn	Thr	Lys	Phe	Val	Thr
126				340			345
127	Cys	Ala	Arg	Leu	Phe	Pro	Asp
128				355			360
129	Asp	Gly	Leu	Ser	Pro	Leu	Met
130				370			375
131	Ile	Phe	Gln	His	Ile	Ile	Arg
132				385			390
133	His	Leu	Ser	Arg	Lys	Phe	Lys
134					405		
135	Ser	Leu	Tyr	Asp	Leu	Ser	Ser
136				420			425
137	Val	Leu	Glu	Ile	Leu	Val	Tyr
138				435			440
139	Met	Leu	Ala	Val	Glu	Pro	Ile
140				450			455
141	Lys	Phe	Gly	Ala	Val	Ser	Phe
142				465			470
143	Ala	Met	Val	Ile	Phe	Thr	Leu
144					485		
145	Thr	Pro	Pro	Tyr	Pro	Tyr	Arg
146				500			505
147	Gly	Glu	Val	Ile	Thr	Leu	Phe
148				515			520
149	Ile	Lys	Asp	Leu	Phe	Met	Lys
150				530			535
151	Ile	Asp	Gly	Ser	Phe	Gln	Leu
152				545			550
153	Ile	Val	Ser	Ala	Ala	Leu	Tyr
154					565		
155	Val	Met	Val	Phe	Ala	Leu	Val
156					580		

RAW SEQUENCE LISTING

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DATE: 09/03/2004

TIME: 11:38:42

Input Set : A:\USSequence.txt

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157 Thr Arg Gly Leu Lys Leu Thr Gly Thr Tyr Ser Ile Met Ile Gln Lys
158      595      600      605
159 Ile Leu Phe Lys Asp Leu Phe Arg Phe Leu Leu Val Tyr Leu Leu Phe
160      610      615      620
161 Met Ile Gly Tyr Ala Ser Ala Leu Val Ser Leu Leu Asn Pro Cys Ala
162      625      630      635      640
163 Asn Met Lys Val Cys Asn Glu Asp Gln Thr Asn Cys Thr Val Pro Thr
164      645      650      655
165 Tyr Pro Ser Cys Arg Asp Ser Glu Thr Phe Ser Thr Phe Leu Leu Asp
166      660      665      670
167 Leu Phe Lys Leu Thr Ile Gly Met Gly Asp Leu Glu Met Leu Ser Ser
168      675      680      685
169 Thr Lys Tyr Pro Val Val Phe Ile Ile Leu Leu Val Thr Tyr Ile Ile
170      690      695      700
171 Leu Thr Phe Val Leu Leu Leu Asn Met Leu Ile Ala Leu Met Gly Glu
172      705      710      715      720
173 Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile Trp Lys Leu Gln
174      725      730      735
175 Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe Pro Val Phe Leu
176      740      745      750
177 Arg Lys Ala Phe Arg Ser Gly Glu Met Val Thr Val Gly Lys Ser Ser
178      755      760      765
179 Asp Gly Thr Pro Asp Arg Arg Trp Cys Phe Arg Val Asp Glu Val Asn
180      770      775      780
181 Trp Ser His Trp Asn Gln Asn Leu Gly Ile Ile Asn Glu Asp Pro Gly
182      785      790      795      800
183 Lys Asn Glu Thr Tyr Gln Tyr Tyr Gly Phe Ser His Thr Val Gly Arg
184      805      810      815
185 Leu Arg Arg Asp Arg Trp Ser Ser Val Val Pro Arg Val Val Glu Leu
186      820      825      830
187 Asn Lys Asn Ser Asn Pro Asp Glu Val Val Val Pro Leu Asp Ser Met
188      835      840      845
189 Gly Asn Pro Arg Cys Asp Gly His Gln Gln Gly Tyr Pro Arg Lys Trp
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191 Arg Thr Asp Asp Ala Pro Leu
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195 <211> LENGTH: 3223
196 <212> TYPE: DNA
197 <213> ORGANISM: Homo sapiens
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202 ctgagctccc cggggatgag agtggcacc caggtgggga ggcttttccct ctctcctccc      180
203 tggccaatct gtttgagggg gaggtggcct ccttttcgcc ctcaccggct gatgccagtc      240
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205 gcaagggggg gcccaacccc atcgatctgc tggagtccac cctatatgag tctcgggtgg      360
206 tgcttggggc caagaaagca cccatggact cactgtttga ctacggcacc tatcgtcacc      420
207 actccagtga caacaagagg tggaggaaga agatcataga gaagcagccg cagagcccca      480

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/668,846A

DATE: 09/03/2004

TIME: 11:38:42

Input Set : A:\USSequence.txt

Output Set: N:\CRF4\09032004\J668846A.raw

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208 aagcccctgc ccctcagccg ccccccattc tcaaagtctt caaccggcct atcctctttg 540
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210 acaagaaacg cctaactgat gaggagtctt gagagccatc tacggggaag acctgcctgc 660
211 ccaaggcctt gctgaacctg agcaatggcc gcaacgacac catccctgtg ctgctggaca 720
212 tcgcgagcgc caccggcaac atgcgggagt tcatctaact gcccttccgt gacatctact 780
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214 ttctcgtggc ccagggaagt gatgtccacg cccaggcccc tgggcgcttc ttccagccca 900
215 aggatgaggg gggctacttc tactttgggg agctgcccc gtgctgggt gccctgacca 960
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217 gccaggactc gcgaggcaac acagtgtctg atgcgtggt ggccattgct gacaacaccc 1080
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221 atgaggacac acggcacctg tcccgaagt tcaaggactg ggcctatggg ccagtgtatt 1320
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232 gattcctgct cgtctacttg ctcttcatga tcggctacgc ttcagccctg gtctccctcc 1980
233 tgaaccctg tgccaacatg aaggtgtgca atgaggacca gaccaactgc acagtgccca 2040
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237 cctcatggg cgagacagt ggccaggtct ccaaggagag caagcacatc tggaaactgc 2280
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241 acgaggaccc gggcaagaat gagacctacc agtattatgg cttctcgcat accgtgggccc 2520
242 gcctccgcag ggatcgctgg tcctcggtgg taccctcggt ggtggaactg aacaagaact 2580
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244 accagcaggg ttacccccgc aagtggagga ctgatgacgc cccgctctag ggactgcagc 2700
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/668,846A

DATE: 09/03/2004

TIME: 11:38:43

Input Set : A:\USSequence.txt

Output Set: N:\CRF4\09032004\J668846A.raw

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L:16 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP FILING DATE
L:18 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP FILING DATE
L:19 M:289 W: Identifier Missing or Out-Of-Order, <150> PRIOR APP FILING DATE